



N68311.000215
NAVSTA LONG BEACH
SSIC #5090.3

Navy CLEAN II Program
BNI Job No. 22214
Contract No. N68711-92-D-4670
File Code: 0218.1
IN REPLY REFERENCE: CTO-177/0168-1

March 26, 2001

Contracting Officer
Naval Facilities Engineering Command
Southwest Division
Mr. Richard Selby, Code 02R1
1220 Pacific Coast Highway
San Diego, CA 92132-5190

Subject: **Revised – Second Round** - Analytical Results from IR Site 3, Groundwater Sampling
Results from January 2001 at Groundwater Monitoring Well MW-3-05 at the Former Long
Beach Naval Station, Long Beach, California

Dear Mr. Selby:

Groundwater samples from Installation Restoration (IR) Site 3 at the former Naval Station at Long Beach, California were collected and submitted to a laboratory for analyses during January 2001. The sampling represents the second round of sampling at IR Site 3 conducted as part of CTO-177. The samples were collected from groundwater monitoring well MW-3-05 and were analyzed for benzene and vinyl chloride.

The work was performed following the Final Work Plan for Groundwater Monitoring at Installation Restoration Program Sites 9, 12, and 13 at former Long Beach Naval Shipyard, Long beach, California prepared by Bechtel National, Incorporated (March 1999). A technical memorandum was issued by Bechtel National, Incorporated on May 22, 2000 describing the use of this work plan to perform the sampling required at IR Site 3.

Samples were collected from the well after three well volumes were purged from the well (approximately 30 gallons) and temperature, pH, conductivity, and turbidity readings stabilized. The samples were analyzed using United States Environmental Protection Agency Method 8260B. Quality control samples included: a field duplicate, trip blank, rinsate sample, and a field blank. Quality control samples were non detect for benzene and vinyl chloride. The samples were collected on January 9, 2001.

Results were verified, validated, and entered into the Bechtel Environmental Integrated Data Management System.

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Results from previous sampling by CDM Federal were reported in a draft Annual (Fourth Quarterly) Report for Groundwater Monitoring at IR Sites 1 and 2 (Area of Potential Concern 4) and 3 (Area of Potential Concern 2) at the former Naval Station at Long Beach California (July 7, 2000). Results from MW-3-05 for benzene ranged from 10 to 40 µg/L. Results from MW-3-05 for vinyl chloride ranged from 15 to 80 µg/L. The sampling was performed between July 1994 and April 1999. Results from August 2000 were 17/18 µg/L for benzene and 41/43 J (estimated concentration) for vinyl chloride. Two results are given because a regular sample was analyzed along with a field blank submitted to the laboratory for quality assurance. Results from the subject round of sampling for January 2001 were 21/33 µg/L for benzene and 51/92 for vinyl chloride. These results are consistent with previously described analytical results.

Results from sampling conducted between July 1994 and January 2001 are shown on Figure 1 along with California Ocean Plan objectives for 1997. Benzene concentrations are consistently above the California Ocean Plan objective for benzene. Vinyl chloride concentrations from August 2000 are slightly above the California Ocean Plan objective for vinyl chloride and January 2001 concentrations for vinyl chloride are also above the California Ocean Plan objective for vinyl chloride. Previously reported concentrations have been above, equal to, and below the California Ocean Plan objective for vinyl chloride.

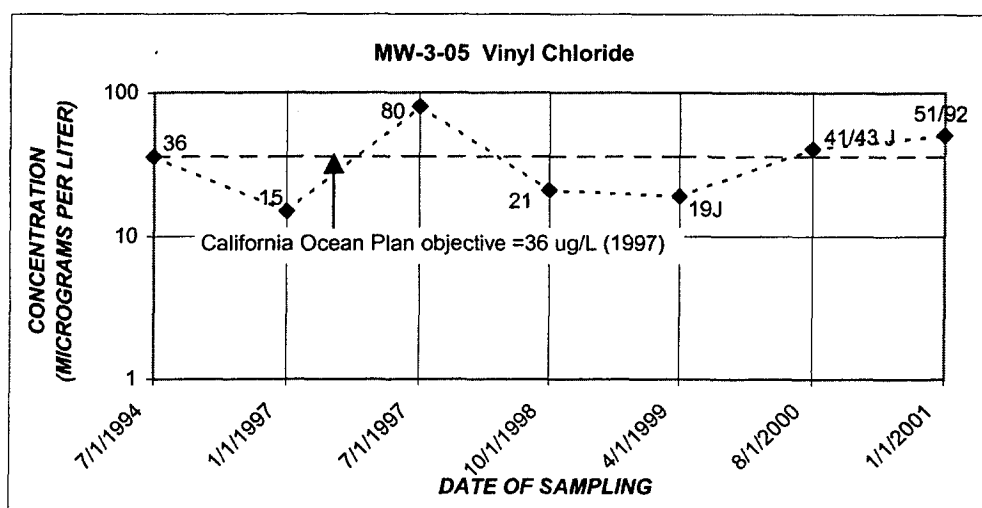
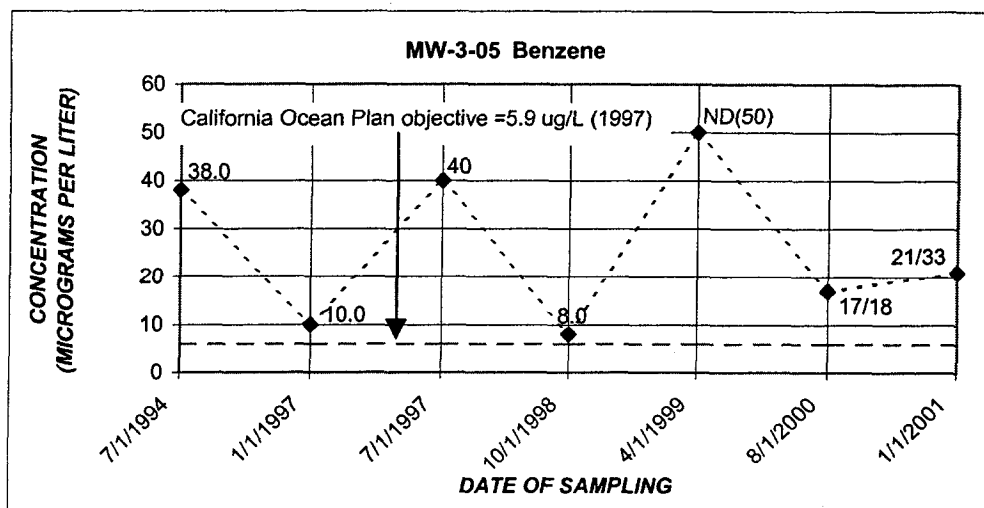
Additional sampling is scheduled during April 2001 and July 2001.

If you have any questions, please contact Scott Donovan, CTOL, at (619) 744-3019 or myself at (619) 744-3004.

Very Truly Yours,


Thurman L. Heironimus
Project Manager

TLH/lsh



J = estimated concentration

ND = not detected (detection limit)

Data Reference: CDM Federal Programs Corp. July 07, 1998. Draft Annual (Fourth Quarterly) Report, Groundwater Monitoring IR Sites 1 and 2 (AOPC 4) and 3 (AOPC 2) Former Naval Station Long Beach, California (Figure 2-4)

**Benzene and Vinyl Chloride Concentrations
in MW-3-05 (July 1994 to January 2001)**

IRP Site 3

Figure 1

Former Naval Station, Long Beach, California



Bechtel National, Inc.
CLEAN II Program

Date: 3/15/01
File: No.: see footer
Job: No.: 22214-177
Rev. No.: A

GROUNDWATER SAMPLING RESULTS FROM
JANUARY 2001 AT GROUNDWATER
MONITORING WELL MW-3-05

DATED 15 MARCH 2001

IS ENTERED IN THE DATABASE AND FILED AT
ADMINISTRATIVE RECORD NO. **N68311.000214**



DEPARTMENT OF THE NAVY
SOUTHWEST DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132-5190

5090
Ser 06CA.ED/0334
March 27, 2001

Ms. Ana Townsend
California Regional Water Quality Control Board
Los Angeles Region
320 W. 4th Street, Suite 200
Los Angeles, CA 90013

Dear Ms. Townsend:

The enclosed letter report is provided for your review. Please send your written comments by April 13, 2001 to:

COMMANDER
Attn: Mr. Ed Dienzo, (Code 06CA.ED)
BRAC Operations Office
1220 Pacific Highway
San Diego, CA 92132-5190

If you have any questions, please call me at (619) 532-0920.

Sincerely,


ED DIENZO
Remedial Project Manager

Encl: (1) Second Round -Analytical Results from IR 3, Groundwater Sampling Results from January 2001 at Groundwater Monitoring Well MW-3-05 at the Former Long Beach Naval Station, Long Beach, California

Copy to:
Ms. Sue Hakim
Department of Toxic Substances Control
5796 Corporate Way
Cypress, CA 90630

Mr. Martin Hausladen
U.S. Environmental Protection Agency
Region 9
75 Hawthorne Street
San Francisco, CA 94105



BECHTEL NATIONAL INC.

CLEAN II TRANSMITTAL/DELIVERABLE RECEIPT

Contract No. N-68711-92-D-4670

Document Control No. CTO-0177/0168-1

File Code: 0218.1

TO: Contracting Officer
Naval Facilities Engineering Command
Southwest Division
Mr. Richard Selby, Code 02R1
1220 Pacific Highway
San Diego, CA 92132-5190

DATE: March 26, 2001

CTO #: 0177

LOCATION: Long Beach Naval Station

FROM:

Thurman L. Heironimus
Thurman L. Heironimus, Project Manager

DESCRIPTION: Revised - Second Round - Analytical Results from IR Site 3, Groundwater Sampling Results
from January 2001 at Groundwater Monitoring Well MW-3-05 DTD 3/26/2001

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Other Note

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2C/2E for AR)

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